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(21) International Application Number: PCT/GB99/03654 (22) International Filing Date: 5 November 1999 (05.11.99) (30) Priority Data: 9824357.9 7 November 1998 (07.11.98) GB (71) Applicant (for all designated States except US): UNIVERSITY OF WALES COLLEGE OF MEDICINE [GB/GB]; Heath Park, Cardiff CF4 4XW (GB). (72) Inventor; and (75) Inventor/Applicant (for US only): CAMPBELL, Anthony, Keith [GB/GB]; 14 Maillard's Haven, Penarth, Vale of Glamorgan CF65 5RF (GB). (74) Agents: NEWELL, William, Joseph et al.; Wynne-Jones Laine and James, Morgan Arcade Chambers, 33 St. Mary Street, Cardiff CF10 1AF (GB).		(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: PHOLASIN (57) Abstract A bioluminescent oxidative indicator responds to oxygen or one of its metabolites producing light or radiation of altered characteristics when there is a change in the amount of oxygen or its metabolites present. The indicator may also be modified so that its light emission or radiation characteristics change when it is modified covalently, is linked to another protein, interacts with or binds a substance, or when coupled to a specific promoter or enhancer gene thereby acting as a reporter gene.		